

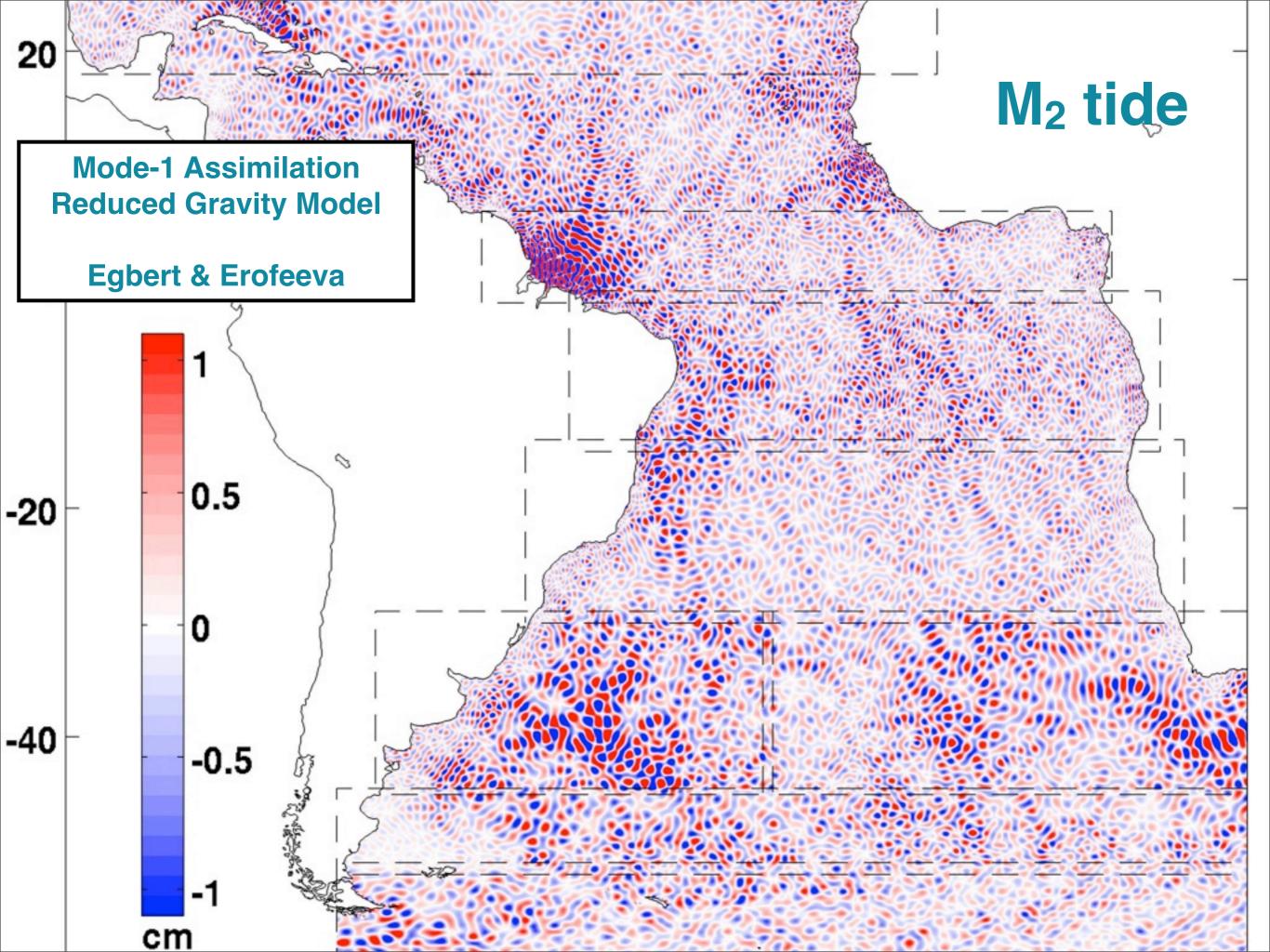


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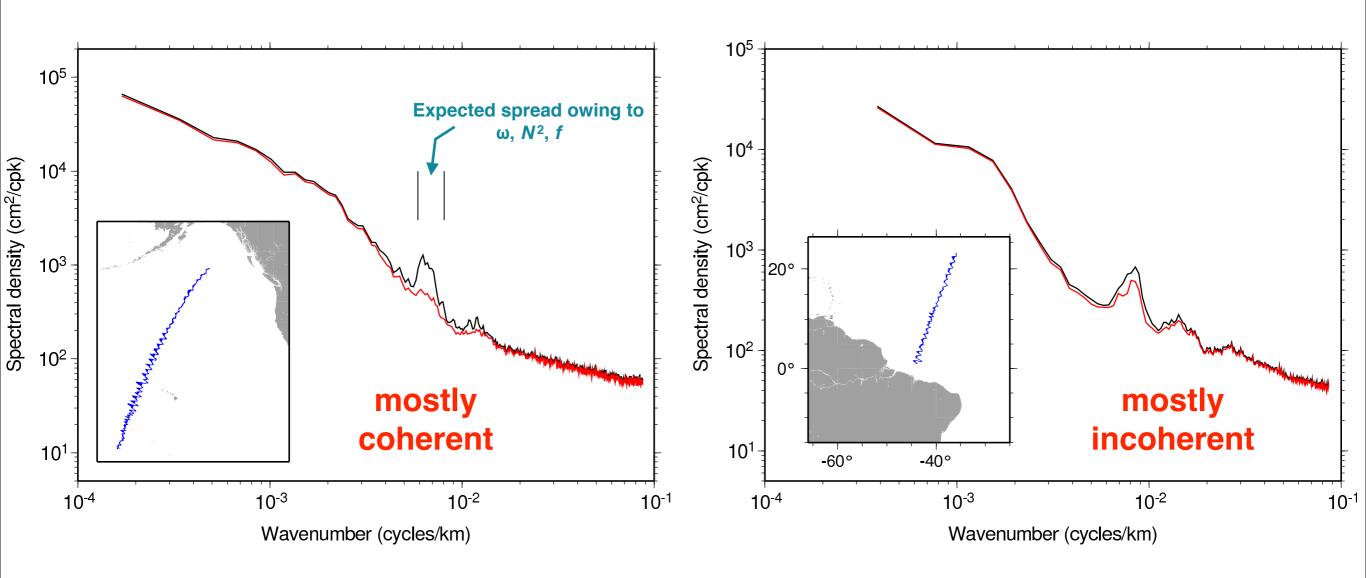
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- 1. Consideration of tides during SWOT orbit design. (Needed now!)
 Removal of tides (via corrections) and estimation of tides from SWOT.
- 2. Tide correction algorithms to be used in SWOT data processing. Barotropic tide models better coastal, polar models. Rivers? Baroclinic models open research questions.
- 3. Construction of time-mean baroclinic mode-1 model.
- 4. Research on stationarity of low-mode internal tides.



Wavenumber Spectrum of Altimetric Sea-Surface Heights

Spectral peaks in SSH from internal tides (mostly semidiurnal mode-1)



Black curves: spectra using barotropic tide model

Red curves: spectra after removing estimated along-track tides (coherent over 17 y)

Is the ocean mostly like left panel, or right panel? Why?